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Mingzhi Li

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EXAMINER

JOO, JOSHUA

ART UNIT

PAPER NUMBER

2154

DATE MAILED: 09/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/025,790

Applicant(s)

LI ET AL.

Examiner

Joshua Joo

Art Unit

2154

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on 5/25/2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,2,4-7 and 17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-7 and 17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

***Response to Amendment filed 5/25/2006***

1. Claims 1-2, 4-7, 17 are presented for examination.

***Continued Examination Under 37 CFR 1.114***

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/25/2006 has been entered.

***Response to Arguments***

3. Applicant's arguments with respect to claims 1-2, 4-7, and 17 have been considered but are moot in view of the new ground(s) of rejection.

***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 1-2, 4-7, 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- i) Regarding claims 1 and 17, in the lines "creates real time terminal messages including terminal information data about merchandise remaining," it is unclear as to what the limitation of "merchandise" is referring to in the claim. Is "merchandise" referring to merchandise selected by the customer or is the limitation referring to other merchandise in the terminal?

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1, 2, 6, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Guheen et al, US Publication #2004/0107125 (Guheen hereinafter), in view of Roerick, US Publication #2002/0097715 (Roerick hereinafter), McKinney et al, US Publication #2005/0188009 (McKinney hereinafter) and McGarry et al, US Patent #6,038,491 (McGarry hereinafter).

8. As per claim 1, Guheen teaches substantially the invention as claimed including a network communication system connecting a network management center and a plurality of customer terminals, Guheen's teachings comprising:

said network management center in said system is comprised of hardware portions: a network center server (Paragraph 0136; 3145; 3137; 3999. Central data processing center.), auxiliary PCs (Pages 9-10; Paragraph 3139; 4001. Secondary server.) or an embedded operation system, network equipment including network cards in server (Paragraph 3139; 3141; 3145. Server communicates with other servers and users. Network cards are inherent.) and network cables (Paragraph 2876; 3025. Network cables is inherent.), and software portions (Page 8, 10. Paragraph 3145. Application software.): an information data database (Page 8; Page 13; Paragraph 2240; 2624. Information database.), management software (Page 11. Management software.), encrypt key authentication (Page 10; Paragraph 1110, Encryption, key management, and authentication.) and an information safety software package including a

Art Unit: 2154

firewall or VPN system (Paragraph 1112; 2891; 4024. Firewall.); said customer terminal is comprised of a customer terminal host (Paragraph 3146. Terminal.) and a plurality of customer terminal slaves, (Paragraph 3145-3146. Dispense information, goods and services. Printer, dispenser, card reader.), said a customer terminal slaves are chosen according to the requirements of a local user and providing different service items and contents (Paragraph 3145. Take orders for goods and services from customers and deliver goods and services.); said network communication system is comprised of the Internet (Paragraph 3141; 4037. Internet), a wired and/or wireless local area network (Paragraph 2534. LAN.) and computer buses (Paragraph 0147. Bus.)

each terminal slave and each customer terminal host being in communication with the network management center (Paragraph 3146. Terminals communicating with remote service center.), the plurality of customer terminal slaves providing a variety of items including merchandise and information for purchase by a customer, the plurality of customer terminal slaves including a customer terminal slave information dispenser and a customer terminal merchandise dispenser (Paragraph 3146. Dispense voice and video information, printed documents, and goods. Accepting orders and payments.),

the customer terminal host having a host panel, the host panel including a touch screen display operative for displaying messages or providing information to a customer (Paragraph 3142. Touch screen), a keyboard for inputting data into the customer terminal host (Paragraph 3142. Keyboard.), a paper exit for dispensing printed paper from a printer contained with the customer terminal host (Paragraph 3142. Printer operations.), an IC card reader or a magcard reader (Paragraph 3142. Credit card reader.), and payment means for payment of a selected one of the variety of items purchased (Paragraph 3142; 3145. Accept payment for goods or services.), and a card receiver for receiving value storing cards or value adding cards

Art Unit: 2154

(Paragraph 3142; 3145. Use credit card reader or PIN number entering, i.e. credit or ATM card.

Paragraph 3154. Magnetic strip card with value.), and

when the customer selects information as the selected one of the variety of items for purchase and one of the payment means (Paragraph 3145. Gather information from desired goods and services.), the customer terminal host creates an information service request and transmits the information service request to the network management center (Paragraph 3145. Transmit information on goods and services to the central data processing center.), the network management center extracts corresponding information from the information database and returns the corresponding information to the customer terminal host, the customer terminal host then performs payment settlement according to the selected payment means, the customer terminal slave information dispenser provides the information to the customer (Paragraph 3145. Accept payment. Processing by the central data processing center to deliver goods or services in the form of documents.),

when the customer selects merchandise as a selected one of the variety of items for purchase, the customer terminal host creates real time messages, the network management database sends a result to the customer terminal host (Paragraph 3145. Receive information on desired goods and services from customers. Sent goods or services to the data processing center for processing.), the customer terminal host settles payment according to the selected one of the payment means, the selected merchandise is dispensed to the customer from the customer terminal slave corresponding to the selected merchandise (Paragraph 3145. Accept payment. Deliver documents to the customer.), and

9. However, Guheen does not teach a network management database, electronic business database, at least one card exit, at least one ticket exit, a small change machine for dispensing

Art Unit: 2154

coins, the payment means including a paper currency receiver for receiving paper currency from a customer; a plurality of terminal server cabinets constructed in a building block architecture.

when the customer selects merchandise and one of the payments, the customer host creating real time messages including terminal information data about merchandise remaining at the customer terminal slave, a request for the merchandise and an amount of currency remaining at the customer terminal host, the customer terminal slave transmits the terminal information data to the network management center for modification of the network management database based upon the terminal information data,

when the customer selects the card receiver for receiving value adding cards as payment means, the customer terminal host modifies value adding card information and sends the modified value adding card information to the network management center, the network management center correspondingly modifies data in the electronic business database and sends a result to the customer terminal host, the customer terminal host then settles payment and the selected one of the items for purchase is dispensed to the customer at the corresponding customer terminal slave.

10. Roerick teaches a similar system comprising: at least one card exit (Paragraph 0260; 0267. Card dispenser.), at least one ticket exit (Paragraph 0280. Print ticket.), a small change machine for dispensing coins (Paragraph 0260; 0274. Coin dispenser.), the payment means including a paper currency receiver for receiving paper currency from a customer (Paragraph 0039; 0260. Receive currency.);

when the customer selects merchandise and one of the payments, the customer host (Paragraph 0277-0278. Request service. Indicate method of payment.), creating real time messages including terminal information data about a request for the merchandise (Paragraph 0278-280. Message sent to transaction server. Message includes request for goods/services.),

Art Unit: 2154

the customer terminal slave transmitting the terminal data to the network management center for modification of the network management database based upon the terminal information data (Paragraph 0280. Determine availability of ticket, price, information from vendor or business. Paragraph 0283. Information is sent by the transaction server to the MFC.)

when the customer selects the card receiver for receiving value adding cards as payment means (Paragraph 0269; 0273; 081. Smart card.), the customer terminal host modifies value adding card information and sends the modified value adding card information to the network management center (Paragraph 0277; 0281. Encrypted message sent to transaction server.), the network management center correspondingly modifies data in the electronic business database (Paragraph 0281. Log transaction.) and sends a result to the customer terminal host, the customer terminal host then settles payment (Paragraph 0279. Confirm purchase of goods/services to the device. Paragraph 0280; 0282. Ticket information sent to the device.) and the selected one of the items for purchase is dispensed to the customer at the corresponding customer terminal slave (Paragraph 0280; 0283. Print ticket.).

11. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Guheen and Roerick because both teachings deal with implementing and managing terminal devices. Furthermore, the teachings of Roerick of paragraph 10 would enhance the system of Guheen's system by improving security, offering a plurality of payment options, allowing electronic transactions, and providing a plurality of items for purchase by customers (Paragraph 0021).

12. McKinney teaches of a server utilizing a building block architecture (Paragraph 0015).

13. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Guheen, Roerick, and McKinney because the teachings of



Art Unit: 2154

McKinney to utilize a building block architecture would improve the system of Guheen and Roerick by reducing the development efforts due to block reuse in designs.

14. McGarry teaches a similar system comprising: sending a message including terminal information data about merchandise remaining at the customer terminal slave and an amount of currency remaining at the customer terminal host (Col 6, lines 1-5, 32-41; Col 8, lines 36-42. Transmit vending machine product inventory and amount of currency.).

15. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Guheen, Roerick, McKinney, and McGarry because the teachings of McGarry to send a message including terminal information data about merchandise remaining at the customer terminal slave and an amount of currency remaining at the customer terminal host would improve the system of Guheen, Roerick, and McKinney by providing monitoring of terminals, wherein the status of terminals may be determined from a management system (Col 2, lines 24-29; Col 6, lines 1-5).

16. As per claim 2, Guheen teaches the network system based self-help service according to claim 1, characterized in that said information data database is comprised of a database storing all kinds of information collected by the network based self-help system for the local public and a dedicated Internet web site (Paragraph 3136; 3145. Server stores information to provides services to customers and clients. Paragraph 3477; 3836. Web page to access data on the network.).

17. As per claim 6, Guheen teaches of providing a dispenser for providing voice, video, and printed documents (Paragraph 3145). However, Guheen does not teach the network system

Art Unit: 2154

based self-help service according to claim 4, characterized in that the card dispenser in the said customer terminal slaves is a ticket dispenser, a card dispenser, or a combination of them.

18. Roerick teaches a terminal comprising a ticket dispenser (Paragraph 0280. Print ticket).

19. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Guheen, Roerick, McKinney, and McGarry because the teachings of Roerick to provide terminals capable of dispensing tickets would improve the system of the Guheen, Roerick, McKinney, and McGarry by improving the capability of the terminals providing additional functions to service customers.

20. As per claim 7, Guheen teaches the network system based self-help service according to claim 1, characterized in that said information service machine is an information query machine, a video telephone set, a printer or a photocopier, or a combination of them (Paragraph 3146. Printer.).

21. Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Guheen, Roerick, McKinney, and McGarry, in view of Rademacher, US Patent #5,450,938 (Rademacher hereinafter).

22. As per claim 4, Guheen teaches of providing a goods and services. However, Guheen does not teach the network system based self-help service according to claim 1, characterized in that said customer terminal slaves are comprised of 2-6 cabinets of dispensers or card dispensers or information service machines constructed by way of building block architecture, said customer terminal slaves may provide 6-30 service items.

Art Unit: 2154

23. Rademacher teaches a vending machine comprising dispensers, wherein each dispenser serves up a merchandise (Col 5, lines 9-18).

24. Even though, Rademacher does not explicitly teach of 2-6 cabinets of dispensers and 6-30 service items, it would have been obvious to one of ordinary skill in the art that a vending machine comprising dispensers, wherein each dispenser services one merchandise can comprise 2-6 cabinets and 6-30 service items. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Guheen, Roerick, McKinney, McGarry, and Rademacher because the teachings of Rademacher for a machine to comprise dispensers and a plurality of merchandise would improve the system of Guheen, Roerick, McKinney, and McGarry by providing a increased selection of merchandise, which would improve the system's functionality.

25. As per claim 5, Guheen, Roerick, McKinney, McGarry, and Rademacher taught the network system based self-help service according to claim 4. Guheen further teaches the system characterized in that said dispensers in said customer terminal slaves are food dispensers, beverage dispensers or general merchandise dispensers (Paragraph 3145; 3146. Dispense good and services.).

26. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Guheen, in view of Roerick, Schanin, US Publication #2004/0000154 (Schanin hereinafter), Rademacher, and McGarry.

Art Unit: 2154

27. As per claim 17, Guheen teaches substantially the invention as claimed including a network communication system connecting a network management center and a plurality of customer terminals, Guheen's teachings comprising:

a network management center (Paragraph 3145. Central data processing center.); and  
a plurality of customer terminals in communication with the network management center via a network communication system (Paragraph 3142; 3145. Terminals.),

the network management center including a network center server operative with an information data database (Paragraph 2608; 2624. Information database.);

each one of the plurality of customer terminals including a customer terminal host and a plurality of computer terminal slaves in communication with the customer terminal host (Paragraph 3142. Printer, touch screen, credit card reader.), each customer terminal host and each customer terminal slave being in communication with the network management center (Paragraph 3145. Terminals linked to central data processing center.), the plurality of customer terminal slaves providing a variety of items including merchandise and information for purchase by a customer (Paragraph 3145. Goods or services in the form of documents.), the plurality of customer terminal slaves including a customer terminal slave information dispenser (Paragraph 3145; 3145. Dispense documents.),

the customer terminal host having a host panel, the host panel including a touch screen display operative for displaying messages or providing information to a customer (Paragraph 3142. Touch screen), a keyboard for inputting data into the customer terminal host (Paragraph 3142. Keyboard.), a paper exit for dispensing printed paper from a printer contained with the customer terminal host (Paragraph 3142. Printer operations.), an IC card reader or a magcard reader (Paragraph 3142. Credit card reader.), and payment means for payment of a selected one of the variety of items purchased (Paragraph 3142; 3145. Accept payment for goods or

Art Unit: 2154

services.), and a card receiver for receiving value storing cards or value adding cards (Paragraph 3142; 3145. Use credit card reader or PIN number entering, i.e. credit or ATM card. Paragraph 3154. Magnetic strip card with value.), and

when the customer selects information as the selected one of the variety of items for purchase and one of the payment means (Paragraph 3145. Gather information from desired goods and services.), the customer terminal host creates an information service request and transmits the information service request to the network management center (Paragraph 3145. Transmit information on goods and services to the central data processing center.), the network management center extracts corresponding information from the information database and returns the corresponding information to the customer terminal host, the customer terminal host then performs payment settlement according to the selected payment means, the customer terminal slave information dispenser provides the information to the customer (Paragraph 3145. Accept payment. Processing by the central data processing center and to deliver goods or services in the form of documents.),

when the customer selects merchandise as a selected one of the variety of items for purchase, the customer terminal host creates real time messages, the network management database sends a result to the customer terminal host (Paragraph 3145. Receive information on desired goods and services from customers. Sent goods or services to the data processing center for processing.), the customer terminal host settles payment according to the selected one of the payment means, the selected merchandise is dispensed to the customer from the customer terminal slave corresponding to the selected merchandise (Paragraph 3145. Accept payment. Deliver documents to the customer.).

28. However, Guheen does not teach a system comprising: a network management database, and an electronic business database, a customer terminal slave food dispenser

Art Unit: 2154

containing food, a customer terminal slave beverage dispenser containing beverages and customer terminal slave card or ticket dispenser,, at least the customer terminal slave beverage dispenser having a temperature adjuster for adjusting temperature of the beverages contained in the customer terminal slave beverage dispenser,

when the customer selects merchandise and one of the payments, the customer host creating real time messages including terminal information data about merchandise remaining at the customer terminal slave, a request for the merchandise and an amount of currency remaining at the customer terminal host, the customer terminal slave transmits the terminal information data to the network management center for modification of the network management database based upon the terminal information data,

when the customer selects the card receiver for receiving value adding cards as payment means, the customer terminal host modifies value adding card information and sends the modified value adding card information to the network management center, the network management center correspondingly modifies data in the electronic business database and sends a result to the customer terminal host, the customer terminal host then settles payment and the selected one of the items for purchase is dispensed to the customer at the corresponding customer terminal slave.

29. Roerick teaches a similar system comprising: at least one card exit (Paragraph 0260; 0267. Card dispenser.), at least one ticket exit (Paragraph 0280. Print ticket.), a small change machine for dispensing coins (Paragraph 0260; 0274. Coin dispenser.), the payment means including a paper currency receiver for receiving paper currency from a customer (Paragraph 0039; 0260. Receive currency.);

when the customer selects merchandise and one of the payments, the customer host (Paragraph 0277-0278. Request service. Indicate method of payment.), creating real time

Art Unit: 2154

messages including terminal information data about a request for the merchandise (Paragraph 0278-280. Message sent to transaction server. Message includes request for goods/services.), the customer terminal slave transmitting the terminal data to the network management center for modification of the network management database based upon the terminal information data (Paragraph 0280. Determine availability of ticket, price, information from vendor or business. Paragraph 0283. Information is sent by the transaction server to the MFC.)

when the customer selects the card receiver for receiving value adding cards as payment means (Paragraph 0269; 0273; 081. Smart card.), the customer terminal host modifies value adding card information and sends the modified value adding card information to the network management center (Paragraph 0277; 0281. Encrypted message sent to transaction server.), the network management center correspondingly modifies data in the electronic business database (Paragraph 0281. Log transaction.) and sends a result to the customer terminal host, the customer terminal host then settles payment (Paragraph 0279. Confirm purchase of goods/services to the device. Paragraph 0280; 0282. Ticket information sent to the device.) and the selected one of the items for purchase is dispensed to the customer at the corresponding customer terminal slave (Paragraph 0280; 0283. Print ticket.).

30. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Guheen and Roerick because both teachings deal with implementing and managing terminal devices. Furthermore, the teachings of Roerick of paragraph 29 would improve the system of Guheen by improving security, offering a plurality of payment options, allowing electronic transactions, and providing a plurality of items for purchase by customers (Paragraph 0021).

Art Unit: 2154

31. Schanin teaches a similar system, wherein a terminal comprising a beverage dispenser has a temperature adjuster for adjusting temperature of the beverages contained in the customer terminal (Paragraph 0030; 0034-0035).

32. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Guheen, Roerick, and Schanin because the teachings of Schanin of a terminal comprising a beverage dispenser having a temperature adjuster for adjusting the temperature of the beverages contained in the terminal would improve the system of Guheen and Schanin by allowing terminals to store items requiring different temperature settings and offering additional items for purchase by customers.

33. Rademacher teaches a similar system, wherein the terminal comprises a terminal slave dispenser containing food (Col 5, lines 4-14).

34. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Guheen, Roerick, Schanin, Rademacher because the teachings of Rademacher of a terminal comprising a terminal slave dispenser containing food would improve the system of Guheen, Roerick, and Schanin by offering additional items for purchase by customers.

35. McGarry teaches a similar system comprising: sending a message including terminal information data about merchandise remaining at the customer terminal slave and an amount of currency remaining at the customer terminal host (Col 6, lines 1-5, 32-41. Transmit vending machine product inventory and amount of currency.),

36. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Guheen, Roerick, Schanin, Rademacher, and McGarry



Art Unit: 2154

because the teachings of McGarry of sending a message including terminal information data about merchandise remaining at the customer terminal slave and an amount of currency remaining at the customer terminal host would improve the system of Guheen, Roerick, Schanin, and Rademacher by providing monitoring of terminals, wherein the status of terminals may be determined from a management system (Col 2, lines 24-29; Col 6, lines 1-5).

### ***Conclusion***

37. A shortened statutory period for reply to this Office action is set to expire THREE MONTHS from the mailing date of this action.

38. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua Joo whose telephone number is 571 272-3966. The examiner can normally be reached on Monday to Thursday 8AM to 5PM and every other Friday.

39. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A. Follansbee can be reached on 571 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

40. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Application/Control Number: 10/025,790

Page 17

Art Unit: 2154

September 6, 2006

JJ

 JOHN FOLLANSBEE  
SUPERVISORY PATENT EXAMINER  
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